CURRICULUM VITAE
April 2022

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Education:

A.B.	Princeton University (Psychology and Neuroscience) 1997
	NIH Foundation for Advanced Education in the Sciences (Genetics and Molecular Biology, no degree) 1999
M.D.	Yale University School of Medicine 2005
	Yale School of Epidemiology and Public Health (Genetic/chronic disease epidemiology, no degree) 2007

Career/Academic Appointments:

1997-1999	Intramural Research Training Award Fellow, National Institute of Mental Health, Child Psychiatry Branch, Bethesda, MD
2005-2006	Pediatric Internship, Yale-New Haven Hospital & Clinics, Yale University School of Medicine, New Haven, CT
2005-2011	Resident and Research Fellow, Albert J. Solnit Integrated Child, Adolescent and Adult Psychiatry/ Research Training Program, Yale Child Study Center and Department of Psychiatry, Yale University School of Medicine, New Haven, CT
2010-2012	Postdoctoral Research Fellow, NIMH T32 Fellowship, Yale Child Study Center, New Haven, CT
2012-2013	Instructor, Yale Child Study Center, New Haven, CT
2012-present	Attending, Tic Disorder/ Obsessive-Compulsive Disorder Specialty Clinic, Yale Child Study Center, New Haven, CT
2013-2019	Assistant Professor, Yale Child Study Center & Department of Psychiatry (joint primary appointments), New Haven, CT
2019-present	Associate Professor, Yale Child Study Center & Department of Psychiatry (joint primary appointments), New Haven, CT
2020-present	Vice Chair for Research, Yale Child Study Center, New Haven, CT

Administrative Positions:

2018-present	Co-director, Tic Disorder/ Obsessive-Compulsive Disorder/ ADHD Specialty Clinic, Yale Child Study Center, New Haven, CT

Board Certification:

American Board of Psychiatry and Neurology, Psychiatry, 2011
American Board of Psychiatry and Neurology, Child & Adolescent Psychiatry, 2012

Professional Honors & Recognition:

International/National/Regional

2019 Outstanding Mentor Award, American Academy of Child & Adolescent Psychiatry
2018 Charter Membership, Behavioral Genetics and Epidemiology Study Section, NIH Center for Scientific Review
2017 Associate Membership, American College of Neuropsychopharmacology (ACNP)
2017 Finalist, Ziskind-Somerfeld Research Award, Society of Biological Psychiatry, for the paper "Transcriptome Analysis of the Human Striatum in Tourette Syndrome" published in *Biological Psychiatry*
2007-17 NIH Pediatric Loan Repayment Award (competitive renewals every two years)
2011 Campaign for America's Kids/ American Academy of Child and Adolescent Psychiatry Annual Meeting Junior Scholar Award
2011 American College of Neuropsychopharmacology Travel Award
2010-12 National Research Service Award (NRSA) T32 Research Training Grant
2009 American Academy of Child & Adolescent Psychiatry Pilot Research Award for Junior Faculty and Child Psychiatry Fellows ("Genetic Investigation of Childhood Movement Disorders")
2007 Donald J. Cohen Fellowship Program for International Scholars in Child & Adolescent Mental Health
2006 American Academy of Child & Adolescent Psychiatry, Psychiatry Resident Award

University

2012 Yale Psychiatric Research Scholar, Department of Psychiatry and Child Study Center
2010 Seymour L. Lustman Award for Psychiatric Research, Yale University Department of Psychiatry
2005 Farr Scholar Award, Yale University School of Medicine (for medical student research)
2005 Theodore Lidz Prize in Psychiatry, Yale University School of Medicine (for thesis, "Gene discovery in developmental neuropsychiatric disorders: clues from chromosomal rearrangements")

Grant/Clinical Trials History:

Current Grants

Agency: Foundation for OCD Research / New Venture Fund
I.D.# Subcontract to UCSF
Title: Breaking through OCD Genetics
P.I. Thomas Fernandez, M.D., Robert King, M.D.

Role on Project: PI
Percent effort: 10%
Direct costs per year: $85,975
Total costs for project period: $278,833
Project period: 02/01/2022 – 04/30/2025

Agency: NIH/NIMH
I.D.# R01 MH115963
Title: "2/7-Collaborative Genomic Studies of Tourette Disorder"
P.I.: Robert King, M.D.
Role on Project: Co-investigator
Percent effort: 5%
Direct costs per year: $73,408
Total costs for project period: $614,790
Project period: 07/27/2018 – 03/31/2023

Agency: NIH/NIMH
I.D.# R01 MH114927
Title: "Neurogenetic Investigations of Obsessive-Compulsive Disorder"
P.I.: Thomas Fernandez, M.D.
Percent effort: 44%
Direct costs per year: $356,530
Total costs for project period: $2,760,879
Project period: 11/10/2017 – 10/31/2022

Agency: NIH/NIMH
ID#: P50 MH115716
Title: "Cellular, Molecular, and Functional Imaging Approaches to Understanding Early Neurodevelopment in Autism"
P.I.: Katarzyna Chawarska, Ph.D.
Role on Project: Co-investigator
Percent effort: 5%
Direct costs per year: $1,439,873
Total costs for project period: $12,022,715
Project period: 09/07/2017 – 07/31/2022

Past Grants

Agency: Brain and Behavior Research Foundation
I.D.# NARSAD Young Investigator Award
Title: "Somatic Mosaicism and Copy Number Variation in Obsessive-Compulsive Disorder"
P.I.: Thomas Fernandez, M.D.
Percent effort: 10%
Direct costs per year: $34,510
Total costs for project period: $69,020
Project period: 01/15/2018 – 01/14/2020

Agency: NIH/NIMH
I.D.# K08 MH099424

Title: "Genomic Investigations of Tourette's Disorder"
P.I.: Thomas Fernandez, M.D.
Percent effort: 80%
Total costs for project period: $718,368
Project period: 09/01/2012 – 08/31/2016

Agency: Simons Foundation Autism Research Initiative
I.D.# Pilot Research Award
Title: "Genetic Investigations of Motor Stereotypies"
P.I.: Thomas Fernandez, M.D.
Percent effort: 10%
Total costs for project period: $249,266
Project period: 07/01/2012 – 06/30/2015

Agency: NIH/NIMH
I.D.# T32 MH018268
Title: "Training Program in Childhood Neuropsychiatric Disorders"
P.I.: James Leckman, M.D.
Role on Project: Trainee
Percent effort: 90%
Total costs for project period: $952,674
Project period: 07/01/2010 – 06/30/2012

Agency: American Academy of Child & Adolescent Psychiatry
I.D.# Pilot Research Award
Title: "Genetic Investigation of Childhood Movement Disorders"
P.I.: Thomas Fernandez, M.D.
Percent effort: 10%
Total costs for project period: $30,000
Project period: 11/01/2008 – 10/30/2009

Past Clinical Trials

Agency: Shire
I.D.# Investigator Sponsored Trial
Title: "A Randomized, Double-Blind Placebo-Controlled Multicenter Pilot Study of Intuniv for Children with Tourette's Disorder"
P.I.: Thomas Fernandez, MD
Percent effort: 20%
Total costs for project period: $969,857
Project period: 11/01/2012 – 07/30/2015

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

International/National

2022 Broad Institute Genomics Speaker Series. Virtual. "Genetic studies of Obsessive-Compulsive and related disorders" (Lecture)

2018 Vanderbilt University Medical Center Grand Rounds, Nashville, TN, "Genetic Lessons in Child Psychiatry" (Lecture)

2015 First World Congress on Tourette Syndrome & Tic Disorders, London, UK, "De Novo Genomic Variation in Tourette's Disorder" (Lecture)

2013 Molecular Psychiatry Association 1st Annual Meeting, San Francisco, CA, "Rare Structural and Sequence Genetic Variation Tourette Syndrome" (Lecture)

2013 Annual Meeting for the European Society for the Study of Tourette Syndrome / COST International Conference for Tourette Syndrome. Athens, Greece, "Genomic Investigations of Tourette Disorder" (Lecture)

2012 University of São Paulo Department of Psychiatry Grand Rounds, São Paulo, Brazil, "New findings about the Genetics of Tourette Syndrome" (Lecture)

2012 Tourette Syndrome Association National Conference. Arlington, VA, "Update on the Genetics of Tourette Syndrome" (Lecture)

2011 1st Joint Meeting of the European Network for the Study of Gilles de la Tourette Syndrome (EUNetGTS) and Enhancing the Scientific Study of Early Autism (ESSEA). Amsterdam, The Netherlands, "Rare Structural and Sequence Variation in Tourette Syndrome and Autism" (Lecture)

2010 8th European Research Training Seminar in Child and Adolescent Psychiatry, Siena, Italy, "Lost In Translation: Challenges in Linking Basic Science with Clinical Practice in Psychiatry" (Lecture)

2007 13th International Congress of the European Society of Child & Adolescent Psychiatry, Florence, Italy, "Genetics in Autism Spectrum Disorders: Obstacles and Promising Alternatives for the Future" (Lecture)

Regional

2015 Lurie Center for Autism (MGH/Harvard) Grand Rounds, Lexington, MA, "Simple Genetics for Understanding Complex Disorders" (Lecture)

2015 Columbia University Seminar in Genetic Epidemiology, New York, NY, "Whole-Exome Sequencing Results From The Tourette International Collaborative Genetics Study" (Lecture)

2014 Alexion Pharmaceuticals, New Haven, CT, "Gene Discovery in Developmental Neuropsychiatric Disorders" (Lecture)

2014 New England OCD Research Symposium 2nd Annual Meeting, New Haven, CT, "Whole-exome sequencing in OCD" (Lecture)

2012 Columbia University Seminar in Genetic Epidemiology, New York, NY, "Detecting Rare Structural Variants in Neuropsychiatric Disorders" (Lecture)

2007 Annual meeting of the Donald J. Cohen Medical Student Training Program, Harvard Medical School, Boston, MA, "The Gene Hunter" (Lecture)

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:

International/National

2020 American Academy of Child and Adolescent Psychiatry 67th Annual Meeting, Virtual, "Gene Discovery in Neuropsychiatric Disorders" (Lecture)

2018 American Academy of Child and Adolescent Psychiatry 65th Annual Meeting, Seattle, WA, "New Genetic Findings in Tourette Syndrome and Tic Disorders" (Lecture)

2018 American Academy of Child and Adolescent Psychiatry 65th Annual Meeting, Seattle, WA, "Gene Discovery in Neuropsychiatric Disorders" (Lecture)

2017 American College of Neuropsychopharmacology 56th Annual Meeting, Palm Springs, CA, "De novo damaging coding mutations are strongly associated with obsessive-compulsive disorder and overlap with autism" (Poster)

2016 American Academy of Child and Adolescent Psychiatry 63rd Annual Meeting, New York, NY, "Genetic Investigations of a Core Phenotype for Autism Spectrum Disorder" (Lecture)

2015 American College of Neuropsychopharmacology 54th Annual Meeting, Hollywood, FL, "De novo genomic variation in complex motor stereotypies" (Poster)

2015 American Academy of Child and Adolescent Psychiatry 62nd Annual Meeting, San Antonio, TX, "Previews from the Pipeline: A Data Blitz Featuring Early Career Investigators" (Symposium Co-chair)

2015 American Academy of Child and Adolescent Psychiatry 62nd Annual Meeting, San Antonio, TX, "Genetic Investigations of Motor Stereotypies" (Lecture)

2015 American Society of Human Genetics Annual Meeting, Baltimore, MD, "De novo likely gene disrupting mutations and genic copy number variants increase the risk for Tourette's Disorder" (Lecture)

2014 American College of Neuropsychopharmacology 53rd Annual Meeting, Hollywood, FL, "De novo genomic variation in Tourette's disorder" (Poster)

2014 Society for Neuroscience Annual Meeting, Washington, DC, "Integrative analysis of gene expression and rare single nucleotide variations in RNAseq data of the striatum in Tourette syndrome" (Poster)

2014 American Academy of Child and Adolescent Psychiatry 61st Annual Meeting, San Diego, CA, "Previews from the Pipeline: A Data Blitz Featuring Early Career Investigators" (Symposium Co-chair)

2013 American Academy of Child and Adolescent Psychiatry 60th Annual Meeting, Orlando, FL, "Previews from the Pipeline: A Data Blitz Featuring Early Career Investigators" (Symposium Co-chair)

2013 American Academy of Child and Adolescent Psychiatry 60th Annual Meeting, Orlando, FL, "Next Generation Detection of Rare Genetic Variation in Tourette's Disorder" (Lecture)

2012 American Academy of Child and Adolescent Psychiatry 59th Annual Meeting, San Francisco, CA, "Previews from the Pipeline: A Data Blitz Featuring Early Career Investigators" (Symposium Co-chair)

2012 American Society of Human Genetics Annual Meeting, San Francisco, CA, "Searching for the genes of Tourette's: The Tourette International Collaborative Genetics (TIC Genetics) Study" (Poster)

2011 American College of Neuropsychopharmacology 50th Annual Meeting, Hollywood, FL, "Rare copy number variants in Tourette syndrome disrupt genes in histaminergic pathways and overlap with autism" (Poster)

2011 American Academy of Child and Adolescent Psychiatry 58th Annual Meeting, Toronto, Canada, "Rare copy number variants in Tourette syndrome disrupt genes in histaminergic pathways and overlap with autism" (Poster)

2009 American Academy of Child and Adolescent Psychiatry 56th Annual Meeting, Honolulu, HI, "Genetic Investigation of Complex Motor Stereotypies" (Poster)

2007 American Academy of Child and Adolescent Psychiatry 54th Annual Meeting, Boston, MA, "Screening autism candidate genes based on a balanced translocation" (Poster)

2004 American Academy of Child and Adolescent Psychiatry 51st Annual Meeting, Washington, DC, "Analysis of a balanced (4;11) translocation in three autistic siblings" (Poster)

1999 Society of Biological Psychiatry 54th Annual Meeting, Washington, DC, "HLA alleles in attention-deficit hyperactivity disorder" (Poster)

Professional Service

Peer Review Groups/Grant Study Sections:

2018-2024 Charter Member, Behavioral Genetics and Epidemiology Study Section, NIH/NIMH
2017-2018 Ad hoc Member, Behavioral Genetics and Epidemiology Study Section, NIH/NIMH

Journal Service:

Editor/Associate Editor
2018-2021 Associate Editor, *Frontiers in Child and Adolescent Psychiatry*
2016-2017 Co-Chief Editor, *Frontiers in Child and Adolescent Psychiatry*

Reviewer

2008-present Reviewer for: *American Journal of Human Genetics, American Journal of Human Genetics, American Journal of Medical Genetics: Neuropsychiatric Genetics, Annals of Neurology, Autism Research and Treatment, Biological Psychiatry, BMC Systems Biology, Cerebral Cortex, Child Development, European Journal of Human Genetics, Frontiers in Neuroscience, Genes Brain and Behavior, International Journal of Neuroscience, Journal of the American Academy of Child and Adolescent Psychiatry, Journal of Autism and Developmental Disorders, Journal of Child and Adolescent Psychopharmacology, Journal of Child Psychology and Psychiatry, Journal of Medical Genetics, Journal of Neuroscience, Mental Illness, Molecular Autism, Molecular Genetics & Genomic Medicine, Movement Disorders, Nature Reviews Neurology, Neurogenetics, Neuron, PeerJ – The Journal of Life and Environmental Sciences, PLOS One, Psychiatric Genetics, Schizophrenia Bulletin*

Professional Service for Professional Organizations:

American Academy of Child & Adolescent Psychiatry

2019-present Chair, Annual Meeting Research Poster Committee
2017-present Member, Annual Meeting Program Committee
2008-2010 Member, Annual Meeting Program Committee

American College Neuropsychopharmacology

2018-2020 Member, Annual Meeting Program Committee

Meeting Planning/Participation

2017-present American Academy of Child & Adolescent Psychiatry, Annual Meeting research symposium and poster peer review and selection
2018-2021 American College of Neuropsychopharmacology, Annual Meeting research symposium and poster peer review and selection
2012-2015 Co-Chair, Symposium at the American Academy of Child and Adolescent Psychiatry Annual Meeting, "Previews from the Pipeline: A Data Blitz Featuring Early Career Investigators"
2007 American Academy of Child & Adolescent Psychiatry Research Training Scientific Meeting, Planning Committee

Yale University Service:

Medical School Committees

2016-present Member, Admissions Committee, School of Medicine
2018-2021 Member, Dean's Faculty Advisory Council, School of Medicine

Departmental Committees

2022-present Chair, Trainee Research Awards Committee, Yale Child Study Center
2018-present Member, Postgraduate Award Committee, Yale Child Study Center
2018-present Member, Bridge Funding Committee, Yale Child Study Center
2018-present Member, Associates Workgroup Committee, Yale Child Study Center
2017-present Member, Junior Faculty Award Committee, Yale Child Study Center

2016-present Member, Ladder Track Promotions Advisory Committee, Yale Child Study Center
2016-present Member, Faculty Compensation Committee, Yale Child Study Center
2016-2021 Co-Chair, Research in Progress Committee, Yale Child Study Center

Bibliography:

https://www.ncbi.nlm.nih.gov/myncbi/thomas.fernandez.1/bibliography/public/

Peer-Reviewed Original Research

1. Kumra S, Wiggs E, Krasnewich D, Meck J, Smith AC, Bedwell J, **Fernandez T**, Jacobsen LK, Lenane M, Rapoport JL. Brief report: association of sex chromosome anomalies with childhood-onset psychotic disorders. *Journal of the American Academy of Child and Adolescent Psychiatry*. 1998 Mar;37(3):292-6. doi: 10.1097/00004583-199803000-00014. PubMed PMID: 9519634.

2. Colombo M, **Fernandez T**, Nakamura K, Gross CG. Functional differentiation along the anterior-posterior axis of the hippocampus in monkeys. *Journal of Neurophysiology*. 1998 Aug;80(2):1002-5. doi: 10.1152/jn.1998.80.2.1002. PubMed PMID: 9705488.

3. **Fernandez T**, Yan WL, Hamburger S, Rapoport JL, Saunders AM, Schapiro M, Ginns EI, Sidransky E. Apolipoprotein E alleles in childhood-onset schizophrenia. *American Journal of Medical Genetics*. 1999 Apr 16;88(2):211-3. PubMed PMID: 10206244.

4. Rapoport JL, Giedd JN, Blumenthal J, Hamburger S, Jeffries N, **Fernandez T**, Nicolson R, Bedwell J, Lenane M, Zijdenbos A, Paus T, Evans A. Progressive cortical change during adolescence in childhood-onset schizophrenia. A longitudinal magnetic resonance imaging study. *Archives of General Psychiatry*. 1999 Jul;56(7):649-54. doi: 10.1001/archpsyc.56.7.649. PubMed PMID: 10401513.

5. Nicolson R, Giedd JN, Lenane M, Hamburger S, Singaracharlu S, Bedwell J, **Fernandez T**, Thaker GK, Malaspina D, Rapoport JL. Clinical and neurobiological correlates of cytogenetic abnormalities in childhood-onset schizophrenia. *American Journal of Psychiatry*. 1999 Oct;156(10):1575-9. doi: 10.1176/ajp.156.10.1575. PubMed PMID: 10518169.

6. Nicolson R, Malaspina D, Giedd JN, Hamburger S, Lenane M, Bedwell J, **Fernandez T**, Berman A, Susser E, Rapoport JL. Obstetrical complications and childhood-onset schizophrenia. *American Journal of Psychiatry*. 1999 Oct;156(10):1650-2. doi: 10.1176/ajp.156.10.1650. PubMed PMID: 10518182.

7. Giedd JN, Jeffries NO, Blumenthal J, Castellanos FX, Vaituzis AC, **Fernandez T**, Hamburger SD, Liu H, Nelson J, Bedwell J, Tran L, Lenane M, Nicolson R, Rapoport JL. Childhood-onset schizophrenia: progressive brain changes during adolescence. *Biological Psychiatry*. 1999 Oct 1;46(7):892-8. doi: 10.1016/s0006-3223(99)00072-4. PubMed PMID: 10509172.

8. Nicolson R, Lenane M, Hamburger SD, **Fernandez T**, Bedwell J, Rapoport JL. Lessons from childhood-onset schizophrenia. *Brain Research Reviews*. 2000 Mar;31(2-3):147-56. doi: 10.1016/s0165-0173(99)00032-6. Review. PubMed PMID: 10719143.

9. Nicolson R, Lenane M, Singaracharlu S, Malaspina D, Giedd JN, Hamburger SD, Gochman P, Bedwell J, Thaker GK, **Fernandez T**, Wudarsky M, Hommer DW, Rapoport JL. Premorbid speech and language impairments in childhood-onset schizophrenia: association with risk factors. *American Journal of Psychiatry*. 2000 May;157(5):794-800. doi: 10.1176/appi.ajp.157.5.794. PubMed PMID: 10784474.
10. **Fernandez T**, Morgan T, Davis N, Klin A, Morris A, Farhi A, Lifton RP, State MW. Disruption of contactin 4 (CNTN4) results in developmental delay and other features of 3p deletion syndrome. *American Journal of Human Genetics*. 2004 Jun;74(6):1286-93. doi: 10.1086/421474. Epub 2004 Apr 21. PubMed PMID: 15106122; PubMed Central PMCID: PMC1182094.

11. **Fernandez TV**, García-González IJ, Mason CE, Hernández-Zaragoza G, Ledezma-Rodríguez VC, Anguiano-Alvarez VM, E'Vega R, Gutiérrez-Angulo M, Maya ML, García-Bejarano HE, González-Cruz M, Barrios S, Atorga R, López-Cardona MG, Armendariz-Borunda J, State MW, Dávalos NO. Molecular characterization of a patient with 3p deletion syndrome and a review of the literature. *American Journal of Medical Genetics Part A*. 2008 Nov 1;146A(21):2746-52. doi: 10.1002/ajmg.a.32533. Review. PubMed PMID: 18837054.

12. **Fernandez T**, Morgan T, Davis N, Klin A, Morris A, Farhi A, Lifton RP, State MW. Disruption of Contactin 4 (CNTN4) results in developmental delay and other features of 3p deletion syndrome. *American Journal of Human Genetics*. 2008 Jun;82(6):1385. doi: 10.1016/j.ajhg.2008.04.021. PubMed PMID: 18551756; PubMed Central PMCID: PMC2661627.

13. Ercan-Sencicek AG, Stillman AA, Ghosh AK, Bilguvar K, O'Roak BJ, Mason CE, Abbott T, Gupta A, King RA, Pauls DL, Tischfield JA, Heiman GA, Singer HS, Gilbert DL, Hoekstra PJ, Morgan TM, Loring E, Yasuno K, **Fernandez T**, Sanders S, Louvi A, Cho JH, Mane S, Colangelo CM, Biederer T, Lifton RP, Gunel M, State MW. L-histidine decarboxylase and Tourette's syndrome. *New England Journal of Medicine*. 2010 May 20;362(20):1901-8. doi: 10.1056/NEJMoa0907006. Epub 2010 May 5. PubMed PMID: 20445167; PubMed Central PMCID: PMC2894694.

14. Hoffman RE, **Fernandez T**, Pittman B, Hampson M. Elevated functional connectivity along a corticostriatal loop and the mechanism of auditory/verbal hallucinations in patients with schizophrenia. *Biological Psychiatry*. 2011 Mar 1;69(5):407-14. doi: 10.1016/j.biopsych.2010.09.050. Epub 2010 Dec 8. PubMed PMID: 21145042; PubMed Central PMCID: PMC3039042.

15. Sanders SJ, Ercan-Sencicek AG, Hus V, Luo R, Murtha MT, Moreno-De-Luca D, Chu SH, Moreau MP, Gupta AR, Thomson SA, Mason CE, Bilguvar K, Celestino-Soper PB, Choi M, Crawford EL, Davis L, Wright NR, Dhodapkar RM, DiCola M, DiLullo NM, **Fernandez TV**, Fielding-Singh V, Fishman DO, Frahm S, Garagaloyan R, Goh GS, Kammela S, Klei L, Lowe JK, Lund SC, McGrew AD, Meyer KA, Moffat WJ, Murdoch JD, O'Roak BJ, Ober GT, Pottenger RS, Raubeson MJ, Song Y, Wang Q, Yaspan BL, Yu TW, Yurkiewicz IR, Beaudet AL, Cantor RM, Curland M, Grice DE, Günel M, Lifton RP, Mane SM, Martin DM, Shaw CA, Sheldon M, Tischfield JA, Walsh CA, Morrow EM, Ledbetter DH, Fombonne E, Lord C, Martin CL, Brooks AI, Sutcliffe JS, Cook EH Jr, Geschwind D, Roeder K, Devlin B, State MW. Multiple recurrent de novo CNVs, including duplications of the 7q11.23 Williams syndrome region, are strongly associated with autism. *Neuron*. 2011 Jun 9;70(5):863-85. doi:

10.1016/j.neuron.2011.05.002. PubMed PMID: 21658581; PubMed Central PMCID: PMC3939065.

16. **Fernandez TV**, Sanders SJ, Yurkiewicz IR, Ercan-Sencicek AG, Kim YS, Fishman DO, Raubeson MJ, Song Y, Yasuno K, Ho WS, Bilguvar K, Glessner J, Chu SH, Leckman JF, King RA, Gilbert DL, Heiman GA, Tischfield JA, Hoekstra PJ, Devlin B, Hakonarson H, Mane SM, Günel M, State MW. Rare copy number variants in tourette syndrome disrupt genes in histaminergic pathways and overlap with autism. *Biological Psychiatry*. 2012 Mar 1;71(5):392-402. doi: 10.1016/j.biopsych.2011.09.034. Epub 2011 Dec 14. PubMed PMID: 22169095; PubMed Central PMCID: PMC3282144.

17. Paschou P, **Fernandez TV**, Sharp F, Heiman GA, Hoekstra PJ. Genetic susceptibility and neurotransmitters in Tourette syndrome. *International Review of Neurobiology*. 2013;112:155-77. doi: 10.1016/B978-0-12-411546-0.00006-8. Review. PubMed PMID: 24295621; PubMed Central PMCID: PMC4471172.

18. Hoffman RE, Wu K, Pittman B, Cahill JD, Hawkins KA, **Fernandez T**, Hannestad J. Transcranial magnetic stimulation of Wernicke's and Right homologous sites to curtail "voices": a randomized trial. *Biological Psychiatry*. 2013 May 15;73(10):1008-14. doi: 10.1016/j.biopsych.2013.01.016. Epub 2013 Feb 26. PubMed PMID: 23485015; PubMed Central PMCID: PMC3641174.

19. Scharf JM, Yu D, Mathews CA, Neale BM, Stewart SE, Fagerness JA, Evans P, Gamazon E, Edlund CK, Service SK, Tikhomirov A, Osiecki L, Illmann C, Pluzhnikov A, Konkashbaev A, Davis LK, Han B, Crane J, Moorjani P, Crenshaw AT, Parkin MA, Reus VI, Lowe TL, Rangel-Lugo M, Chouinard S, Dion Y, Girard S, Cath DC, Smit JH, King RA, **Fernandez TV**, Leckman JF, Kidd KK, Kidd JR, Pakstis AJ, State MW, Herrera LD, Romero R, Fournier E, Sandor P, Barr CL, Phan N, Gross-Tsur V, Benarroch F, Pollak Y, Budman CL, Bruun RD, Erenberg G, Naarden AL, Lee PC, Weiss N, Kremeyer B, Berrío GB, Campbell DD, Cardona Silgado JC, Ochoa WC, Mesa Restrepo SC, Muller H, Valencia Duarte AV, Lyon GJ, Leppert M, Morgan J, Weiss R, Grados MA, Anderson K, Davarya S, Singer H, Walkup J, Jankovic J, Tischfield JA, Heiman GA, Gilbert DL, Hoekstra PJ, Robertson MM, Kurlan R, Liu C, Gibbs JR, Singleton A, Hardy J, Strengman E, Ophoff RA, Wagner M, Moessner R, Mirel DB, Posthuma D, Sabatti C, Eskin E, Conti DV, Knowles JA, Ruiz-Linares A, Rouleau GA, Purcell S, Heutink P, Oostra BA, McMahon WM, Freimer NB, Cox NJ, Pauls DL. Genome-wide association study of Tourette's syndrome. *Molecular Psychiatry*. 2013 Jun;18(6):721-8. doi: 10.1038/mp.2012.69. Epub 2012 Aug 14. PubMed PMID: 22889924; PubMed Central PMCID: PMC3605224.

20. Bentley MJ, Lin H, **Fernandez TV**, Lee M, Yrigollen CM, Pakstis AJ, Katsovich L, Olds DL, Grigorenko EL, Leckman JF. Gene variants associated with antisocial behaviour: a latent variable approach. *Journal of Child Psychology and Psychiatry*. 2013 Oct;54(10):1074-85. doi: 10.1111/jcpp.12109. Epub 2013 Jul 3. PubMed PMID: 23822756; PubMed Central PMCID: PMC3766409.

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